

Fig. 1A

```
ATGAAGCTCGCCGCCCTCCTGGGGCTCTGCGTGGCCCTGTCCTGCAGCTCCGC  
TCGTGCTTCTTAGTGGGCTCGCCAAGCCTGTGGCCAGCCTGCGCTGCGC  
TGGAGTCGGCGCGAGGCCGGGGCCGGGACCCCTGGCCAACCCCTCGGCA  
CCCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGCATCCCCGTGAACCA  
CCTCATAGAGGGCTCCAGAAGTGTGGCTGAGCTGGTCCCCAGGCCGTG  
GGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGCCCTGACAGTGTGGC
```

Fig. 1B

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CGTGCTTCTTAGTGGGCTCGCCAAGCCTGTGGCCAGCCTGCGCTGCGCT  
GGAGTCGGCGCGAGGCCGGGGCCGGGACCCCTGGCCAACCCCTCGGCAC  
CCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGCATCCCCGTGAACAC  
CTCATAGAGGGCTCCAGAAGTGTGGCTGAGCTGGTCCCCAGGCCGTG  
GGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGCCCTGACAGTGTGGC
```

Fig. 1C

```
TTCTTAGTGGGCTCGCCAAGCCTGTGGCCAGCCTGCGCTGGAGTC  
GGCGGCGGAGGCCGGGGCCGGGACCCCTGGCCAACCCCTCGGCACCCCTAAC  
CCGCTGAAGCTCCTGCTGAGCAGCCTGGCATCCCCGTGAACCACCTCATAG  
AGGGCTCCCAGAAGTGTGGCTGAGCTGGTCCCCAGGCCGTGGGGCCGT  
GAAGGCCCTGAAGGCCCTGCTGGGGCCCTGACAGTGTGGC
```

Fig. 2A

MKLAALLGLCVALSCSSARAFLVGSAKPVAQPVALESAAEAGAGTLANPLGTL
NPLKLLLSSLGIPVNHLIEGSQKCVAELGPQAVGAVKALKALLGALTIVFG

Fig. 2B

RAFLVGSAKPVAQPVALESAAEAGAGTLANPLGTLNPLKLLLSSLGIPVNHLIE
GSQKCVAELGPQAVGAVKALKALLGALTIVFG

Fig. 2C

FLVGSAKPVAQPVALESAAEAGAGTLANPLGTLNPLKLLLSSLGIPVNHLIEGS
QKCVAELGPQAVGAVKALKALLGALTIVFG

Fig. 3A

```
ATGAAGCTTACCAACCACCTTCTAGTGCTCTGTGTGGCTCTGCTCAGTGACTC  
TGGTGTGCTTCTTCATGGACTCATTGCCAAGCCTGCGGTAGAACCGTGG  
CCGCCCTGCTCCAGCTGCAGAGGCTGTGGCAGGGCTGTGCCTAGCCTACC  
ATTAAGCCACTTGGCCATCCTGAGGTTCATCCTGGCCAGCATGGGCATCCCAT  
TGGATCCTCTCATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGA  
GGCTGTAGGAGCTGTGAAGTCACTGCTGGGGTCCTGACAATGTTCGGT
```

Fig. 3B

```
GTTGCTTCTTCATGGACTCATTGCCAAGCCTGCGGTAGAACCGTGGCCGC  
CCTGCTCCAGCTGCAGAGGCTGTGGCAGGGCTGTGCCTAGCCTACCATT  
AGCCACTTGGCCATCCTGAGGTTCATCCTGGCCAGCATGGGCATCCCATTGG  
ATCCTCTCATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGAGGC  
TGTAGGAGCTGTGAAGTCACTGCTGGGGTCCTGACAATGTTCGGT
```

Fig. 3C

```
TTCTTCATGGACTCATTGCCAAGCCTGCGGTAGAACCGTGGCCGCCCTGC  
TCCAGCTGCAGAGGCTGTGGCAGGGCTGTGCCTAGCCTACCATTAGCCAC  
TTGGCCATCCTGAGGTTCATCCTGGCCAGCATGGGCATCCCATTGGATCCTCT  
CATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGAGGCTGTAGGA  
GCTGTGAAGTCACTGCTGGGGTCCTGACAATGTTCGGT
```

Fig. 4A

MKLTTFLVLCVALLSDSGVAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPL
SHLAILRFILASMGIPLDPLIEGSRKCVTELGPEAVGAVKSLLGVLTMFG

Fig. 4B

VAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLI
EGSRKCVTELGPEAVGAVKSLLGVLTMFG

Fig. 4C

FFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLIEG
SRKCVTELGPEAVGAVKSLLGVLTMFG

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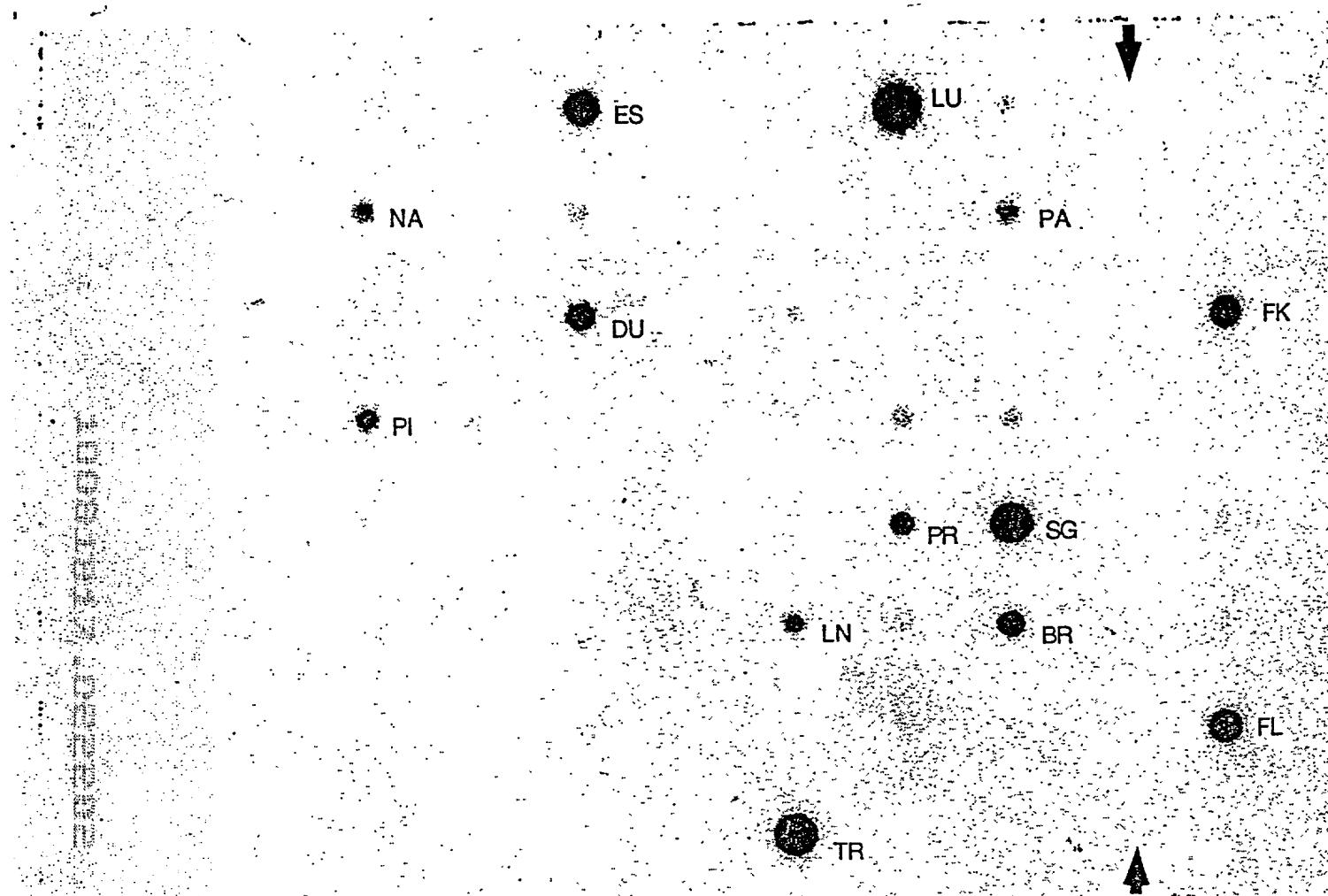


Fig. 5A

85
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PANCREAS
KIDNEY
MUSCLE
LIVER
LUNG
PLACENTA
BRAIN
HEART
PBL
COLON
SM. INTESTINE
OVARY
TESTIS
PROSTATE
THYMUS
SPLEEN



Fig 5C

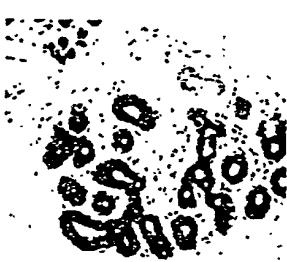


Fig.5D



Fig.5E

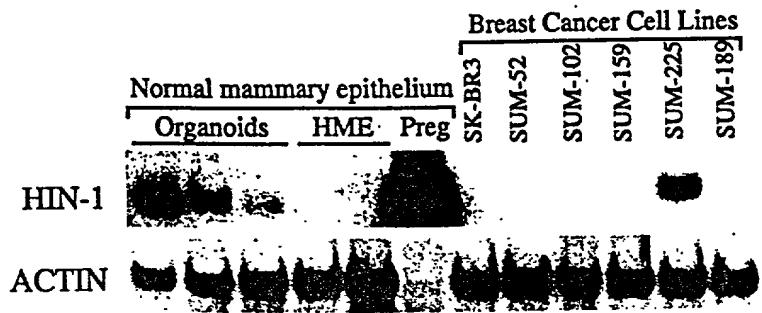


Fig. 5 F

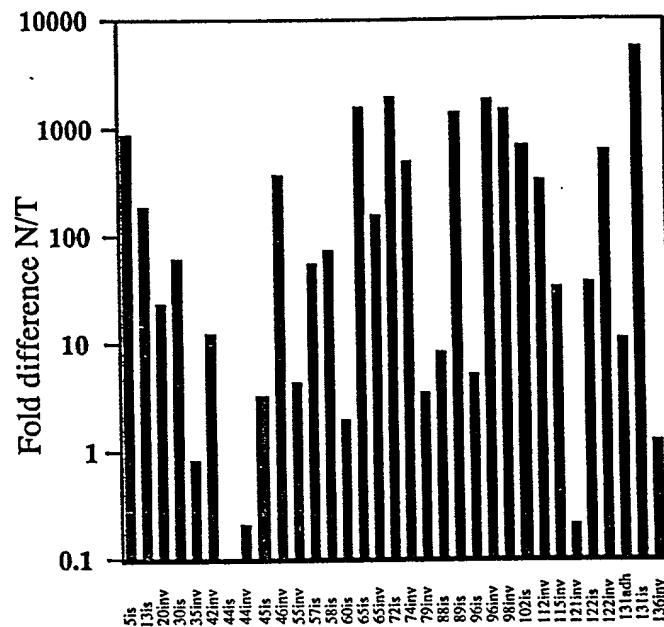
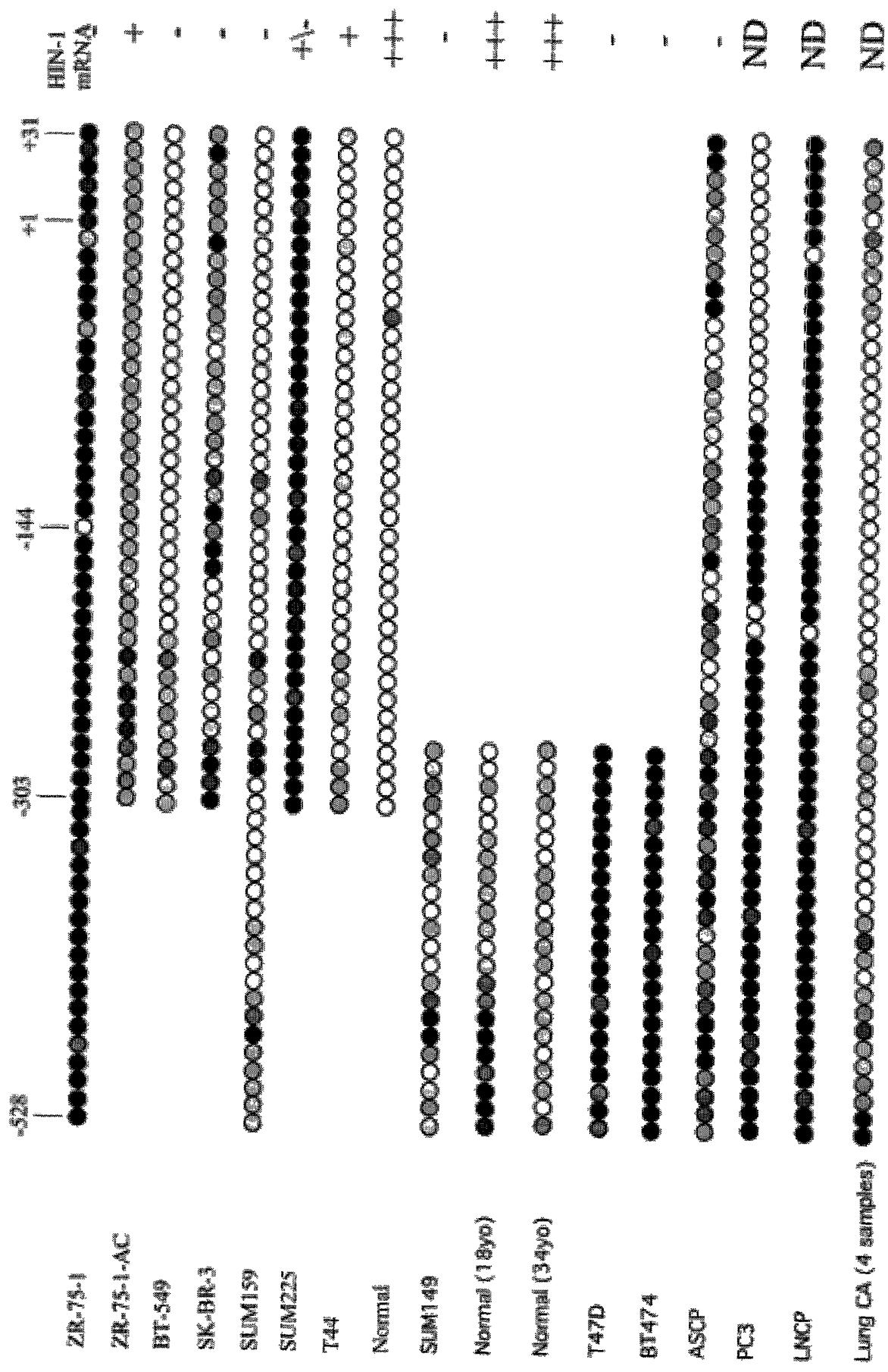


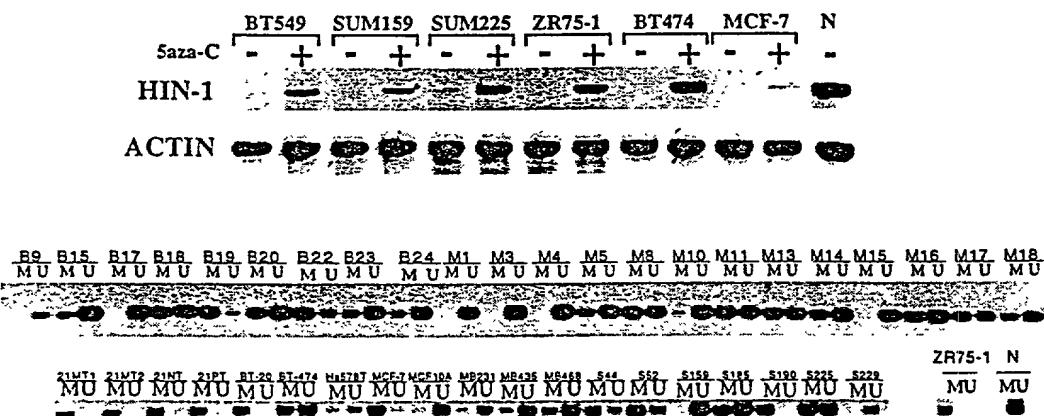
Fig. 5C



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Fig. 6 B

Fig. 6C



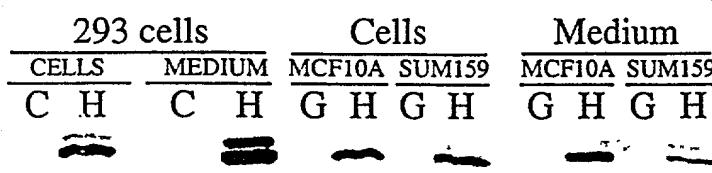


Fig. 7

Fig. 8

CGGCCGGGGAGGCGGCGGGAGTGAGGCCTGATCGTCCCTGGCGCCTCCACC
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GGTCTGGGATCAGAGGCAGGGACCAGGGAGCCAGGAACCTGCCTGCCAC
CCCCTGCCCTGGCGCGAGGGAAAGCTCCCTCACCGAGGGAAAGCTCCCCTCAC
CCGGCCCAGCCCTGCAGGGGGCGCGTGGGTCAAGACCGCAAAGCGAAGGT
GCGGGCCGGGGTGGGCCTCGCGGAGACAAAGGCCGGCCTGCCTCTCAGA
GGGCCCCAGCGCCTGCCAAGAGGAAGTCCTCGAGGCCGGCAGGGAAAGGG
GGCACGGCTTCCCAGGGCCCCGGCGCAGCAGGAAGTTGCCAGGGCA
CGGCCGTGAGCGGAGCGGGCAGGGCTTCTCAGGAGCGCGGGCAGGCCGG
CGCTGGAGGGCGAGGACCGGGTATAAGAACGCTCGTGGCCTGCCGGC
AGCCGCAGGTTCCCCGCGCCCCGAGCCCCCGCGCC

Fig. 9A

GTTCCTCTGTTGTGGTAGGCCTGCTTCTGGTGGATTCACTGGCCAAG
CCTGTGGTAGAACCGTGGCTGCCATTGCTACAGCTGCAGAGGCTGTGGCAG
GGGCTGTGCCTAGCCTACCATTAAGCCACTGGCCATCCTGAGGTTCATCGTG
ACCAGCCTGGGCATCCCATTGGATCCTCTCATAGATGGTCCAGGAAGTGCCTG
CACCGAGCTGGGCCCTGAGGCTGTAGGAGCTGTGAAGTCACTGCTGGGGGCC
CTGACAACTCGGT

Fig. 9B

VLCFVLVGVAFLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSL
GIPLDPLIDGSRKCVTELGPPEAVGAVKSLLGALTTFG

Fig. 9C

TTCTTGGTGGATTCACTGGCCAAGCCTGTGGTAGAACCGTGGCTGCCATTGC
TACAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTAAGCCAC
TTGGCCATCCTGAGGTTCATCGTGACCAAGCCTGGCATCCCATTGGATCCTCT
CATAGATGGTCCAGGAAGTGCCTCACCGAGCTGGGCCCTGAGGCTGTAGGA
GCTGTGAAGTCACTGCTGGGGCCCTGACAACTCGGT

Fig. 9D

FLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSLGIPLDPLIDGS
RKCVTELGPPEAVGAVKSLLGALTTFG

↓

Human HIN1	M K I E A A - L E G L C V A I I S C S S S A R A F L Y G
Mouse HIN1	M K I T T T F L Y L C V A I I L S D S G V A F F M D
Rat HIN-1	V L C F V L V G - - - V A F I V D
	M K L . . . L V L C V A L . . . S V A F L . D
Human HIN1	S - A K P V A Q P V A A L E S A A E A G A C T L A
Mouse HIN1	S L A K P A V E P V A A L A P A A E A V A G A V P
Rat HIN-1	S L A K P V V E P V A A I A T A A E A V A G A V P
	S L A K P V V E P V A A L A . A A E A V A G A V P
Human HIN1	N - P I G T I L N P L K L L S S L G I P V N H L I
Mouse HIN1	S L P I S H L A I I L R F I L A S M G I P L D P L I
Rat HIN-1	S E P L S H L A I I L R F I V T S I G I P L D P L I
	S L P L S H L A I I L R F I L . S . G I P L D P L I
Human HIN1	E G S Q K C V A E L G P Q A V G A V K A L K A L L
Mouse HIN1	E G S R K C V T E L G P E A V G A V K S - - - L L
Rat HIN-1	D G S R K C V T E L G P E A V G A V K S - - - L L
	E G S R K C V T E L G P E A V G A V K S L L
Human HIN1	G A I T T V F G
Mouse HIN1	G V I T M F G
Rat HIN-1	G A I T T F G
	G A L T . F G

Fig. 10

Fig. 11

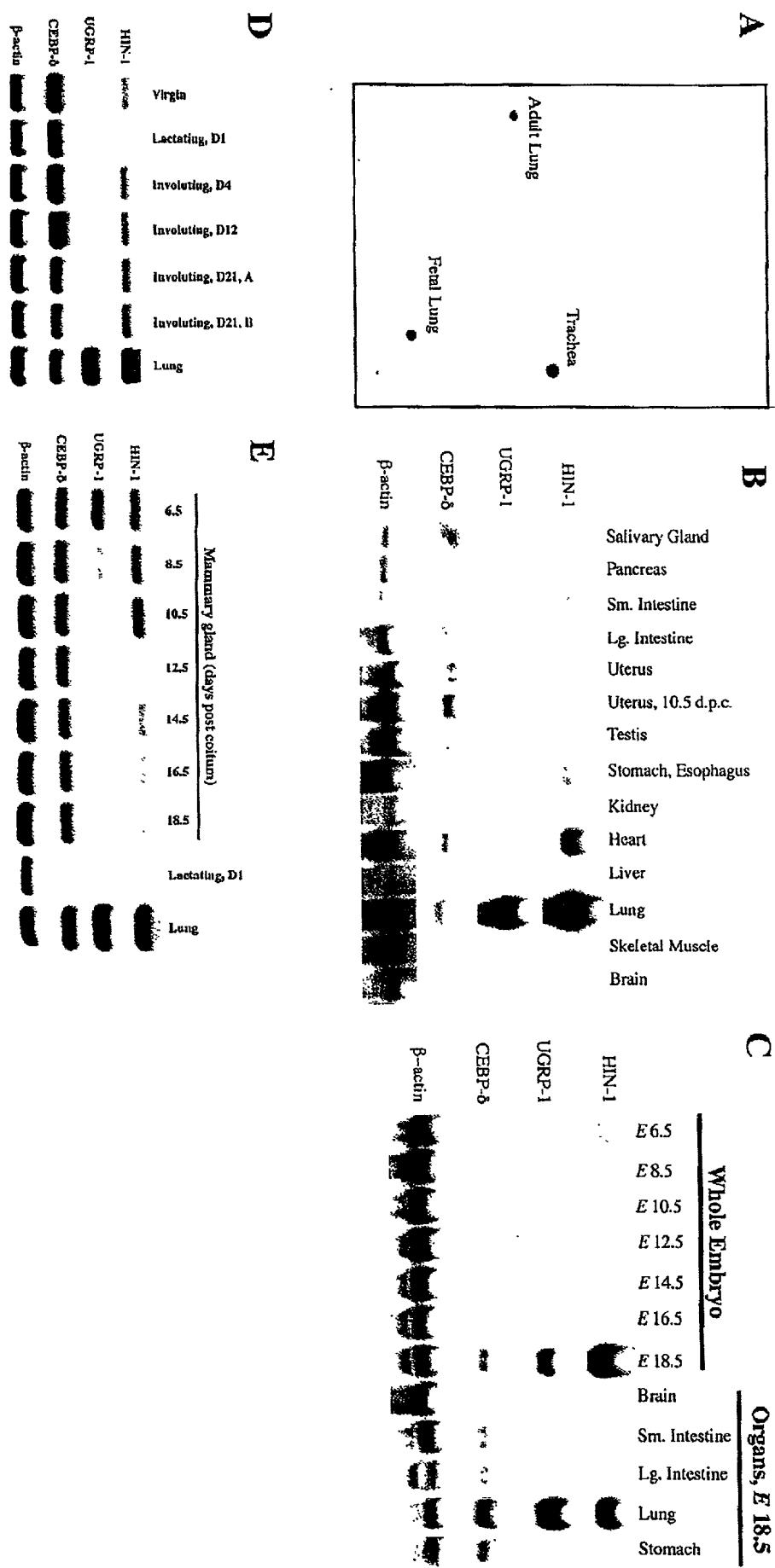


Fig. 12

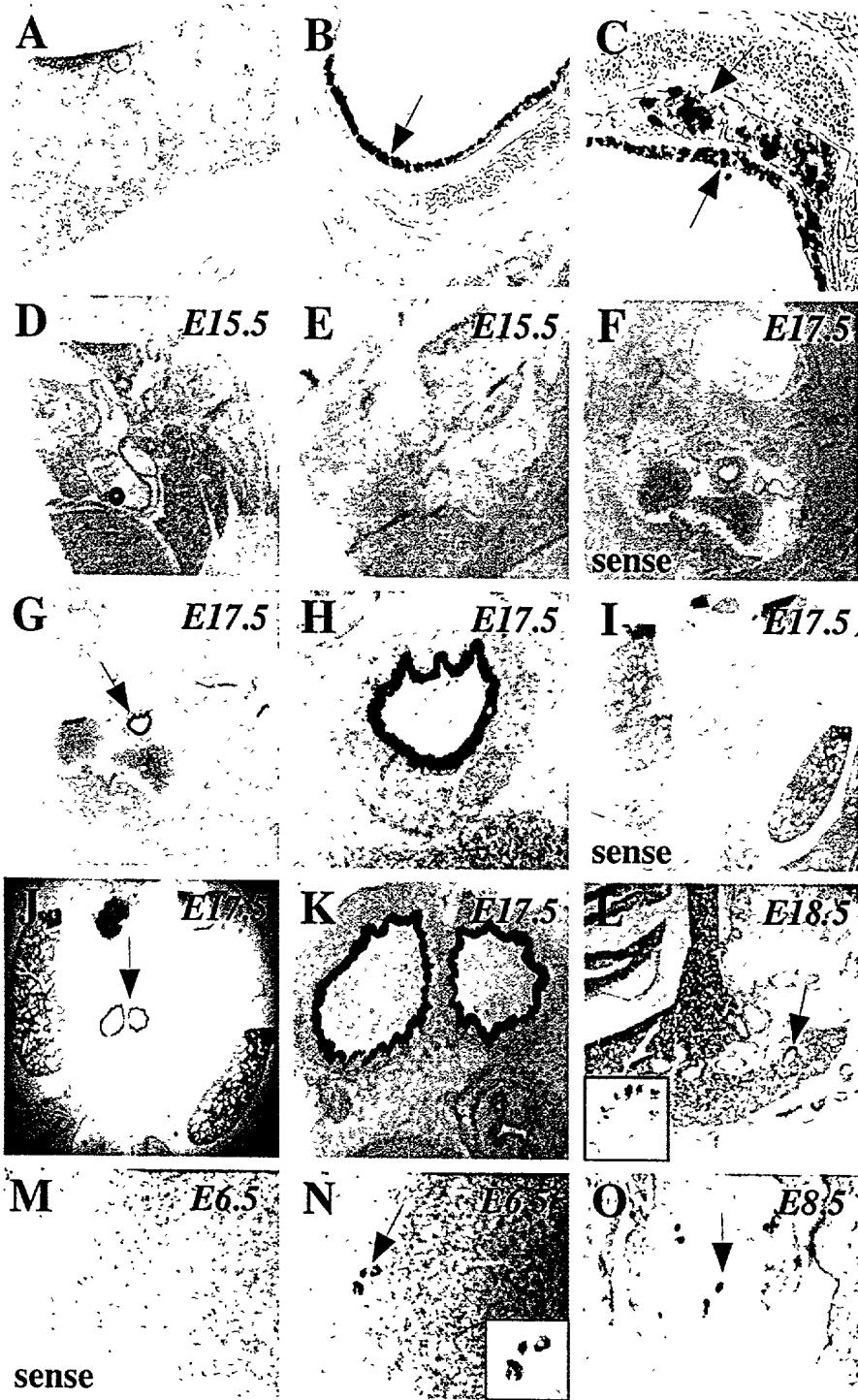


Fig. 13

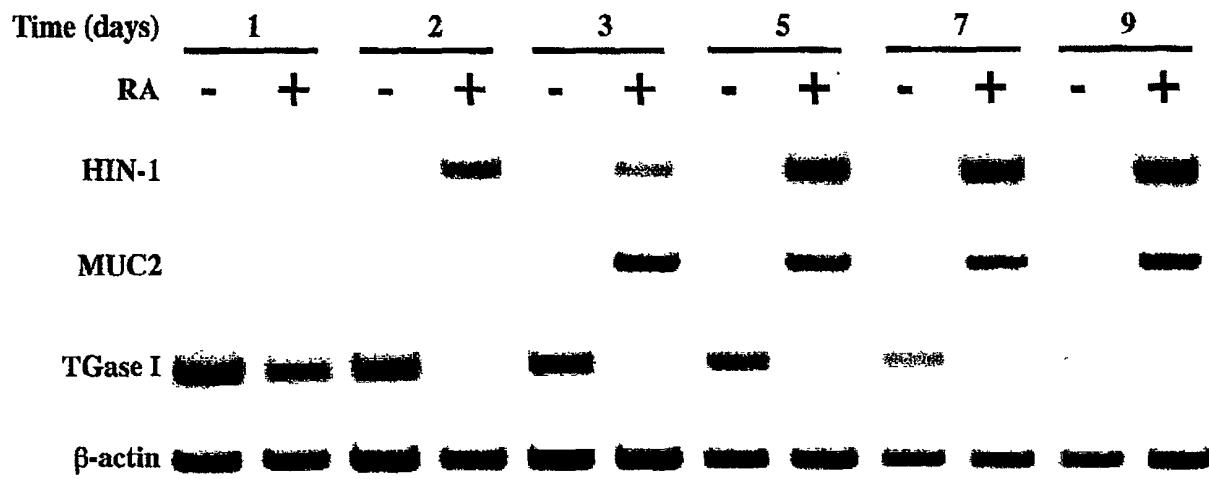


Fig. 14.

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Fig. 15

ATGTTCAAGCTGTCTGCCCTCGTTGTCCTGTGCGCTCTGGTGGCCTGCTCCTCG
GCTGAGCCAAGCCCCGCTATCCTGGCCGCCGCTCCAGTGGTTGCAGCTGCTCC
TGCCGGCGTGGTCACCGCTACCAAGTTCGCAGTACGTGGCCCGCAACTTCAAC
GGTGTGGCTGCTCCAGTTGTCGCCGCTGCCTACACCGCTCCAGTTGCCGC
CGCTGCCTATACCGCTCCAGTTGCCGCCGCTGCTTATACCGCTCCAGTTGCCGC
CTGCCTACTCTGCTTATCCGTATGCCGCCTACCCTTACAGCGCTGCATACACC
ACTGTTTG

Fig. 16

ATGAAATTCCCTGCCGCTGCTTCTCGCTGTTGTGGCTGTGGCTGCTGCCAA
ACCCGGTATTGTGGCTCCTCTGGCCTACACCGCTCCGGCTGTGGTGGCAGTG
CCGCCTACGTGGCTCCCTACGCCTCCAGCTACACCGCCAACACTGGTGGCCCAC
AGCGCCGCCTTCCCAGCTGCCTACACCGCCGCCTACACTGCTCCGTTGCTGC
TGCCTATACCGCTCCAGTGGCTGCTGCTTATACCGCTCCAGTGGCCGCTGCGT
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